

Title (en)
Method for removing fumarase activity, Microorganisms obtainable by the method and production of optically active aminopolycarboxylic acids using the microorganisms

Title (de)
Verfahren zum Entfernen von Fumarase Aktivität, durch diese Verfahren erhältliche Mikroorganismen und Herstellung von optisch aktiven Aminopolycarbonsäuren mit diesen Mikroorganismen

Title (fr)
Méthode d'enlever de l'activité de fumarase, microorganismes obtenus par cette méthode et production d'acides aminopolycarboxyliques optiquement actives par ces microorganismes

Publication
EP 0927762 B1 20040107 (EN)

Application
EP 98308810 A 19981028

Priority
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Abstract (en)
[origin: EP0927762A2] This invention relates to a method for removing fumarase activity from a microorganism or processed product thereof having ethylenediamine-N,N'-disuccinic acid ethylenediamine lyase activity, which includes treating the microorganism or processed product thereof with an aqueous alkaline solution at a pH of 8.0 to 10.5 in the presence of at least one salt with a concentration of 5 mM to 1000 mM. The salt is preferably selected from the group consisting of sodium, potassium, ammonium and C2-6 alkanediamine salts of boric acid, phosphoric acid, hydrochloric acid, sulfuric acid, acetic acid, oxalic acid, fumaric acid, maleic acid and ethylenediamine-N,N'-disuccinic acid, and mixtures thereof. This invention also relates to a microorganism or processed product thereof having reduced fumarase activity obtainable by the above described method, and to a method for producing an optically active aminopolycarboxylic acid from fumaric acid and a compound having amino group in the presence of the microorganism or processed product thereof having reduced fumarase activity as a catalyst.

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Cited by
EP1174515A4; CN111454934A; WO2005113766A1; US7674611B2; US8728792B2; US8895285B2; US9212356B2

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